

### ABSTRACT

A sample plate processing system of the invention in its simplest version consists of a sample deposition station with a data input/output unit and a sample processing station for processing and/or analyzing samples carried by the sample plates. The sample processing station is also equipped with data input/output unit. Both data input/output units interacts with an electronic memory permanently built into each sample plate for loading information into any sample plate which is processed by the stations for or for retrieving information from the aforementioned plate at any current moment of the process. The aforementioned information may contain records of the events history and the current status of the samples and the respective sample plates.